

When the elastomeric pads are used without masonry bearing plates, the masonry bearing surfaces shall be ground to remove all laitance before the application of the adhesive. The surfaces of the masonry bearing areas that will be in contact with the bearing pads and the full contact area of the bearing pad shall be coated with the epoxy adhesive. After the adhesive is applied and the pads are set in place, blocking or other approved mechanical methods shall be used to secure the pads in their final position until the adhesive has set up.

Surface temperatures and predicted ambient air temperature for the next four hours shall be 50 F or higher at the time of application unless otherwise specified in the Contract Documents or recommended by the epoxy adhesive manufacturer and approved by the Engineer.

**432.04 MEASUREMENT AND PAYMENT.** Bearings will not be measured but the cost will be incidental to other pertinent items specified in the Contract Documents.

**SECTION 433 — BRIDGE MOUNTED SIGN  
SUPPORTS**

**433.01 DESCRIPTION.** This work shall consist of furnishing and constructing bridge mounted sign supports and sign luminaire supports as specified in the Contract Documents. The work does not include sign panels, electrical work, and luminaires.

**433.02 MATERIALS.**

Epoxy Grout	902.11(d)
Structural Steel	909.01
Anchor Bolts, Nuts and Washers	909.06
High Strength Bolts, Nuts and Washers	909.07
Paint	912.05, Paint System B

On new structures, the structural steel and fasteners for the sign support shall be the same as used for the fabrication of the structure on which it is to be mounted, including the additional requirements for Charpy V-notch testing. When A 709, Grade 50W structural steel is used, the vertical supports shall be made of steel conforming to A 709, Grade 36 or 50.

On existing structures, the structural steel for the sign support shall include the additional requirements for Charpy V-notch testing and conform to A 709, Grade 36 or 50. When the existing structure consists

of A 709, Grade 50W structural steel, the structural steel for the sign support shall conform to A 709, Grade 50W, except that the vertical supports shall be made of steel conforming to A 709, Grade 36 or 50. The fasteners shall conform to 909.07 and shall be Type 3 when used with A 709, Grade 50W structural steel.

Vertical supports to which the sign panels are attached shall be galvanized in conformance with A 123. All bolts, nuts, and similar fasteners in contact with the galvanized material shall be mechanically or hot dipped galvanized. The coating shall conform to the thickness, adherence, and quality requirements of A 153.

**433.03 CONSTRUCTION.** Construction shall conform to Section 430. Painting shall conform to Section 435, except as otherwise specified herein.

The Contractor shall set the anchor bolts by epoxy grouting or casting in place when applicable.

On new structures the nongalvanized portions of the sign support shall be cleaned and painted in conformance with the system specified for the structure on which it is to be mounted. Portions of the sign support mounted on structures constructed with Grade 50W steel, and attached to areas that are to be painted, shall also be cleaned and painted.

On existing structures not constructed with Grade 50W structural steel, the Contractor may elect to galvanize the entire sign support or paint those areas not designated to be galvanized. The nongalvanized portions of the sign support shall be cleaned and painted as specified in Section 435. They shall be blast cleaned to conform to the surface condition of Near White Sa 2-1/2 prior to painting.

Portions of the sign support mounted on existing structures constructed with Grade 50W steel, and attached to areas that are painted shall also be cleaned and painted.

**433.04 MEASUREMENT AND PAYMENT.** Bridge Mounted Sign Supports will not be measured but will be paid for at the Contract lump sum price. The payment will be full compensation for all material, labor, equipment, tools, and incidentals necessary to complete the work.

## SECTION 434 — RESERVED